

Solve for x

① $10^x = 16$

$x = 1.204$

② $8^x = 16$

$x = 1.33$

③ $e^x = 16$

$x = 2.772$

$7^x = 47$

$\log_7 47 = x$

$x = \frac{\log(47)}{\log(7)}$

④ $\log_2 18 = x$

$2^x = 18$

$x = \frac{\log 18}{\log 2}$

$x = 4.169$

⑤ $\ln 15 = x$

$e^x = 15$

$x = \frac{\log 15}{\log e}$

$x = 2.708$

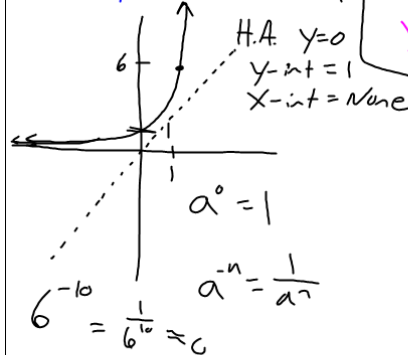
Graph by hand and find the domain, x+y-intercepts, and asymptotes

⑥ $y = 6^x$

Domain: \mathbb{R} H.A. $y = 0$

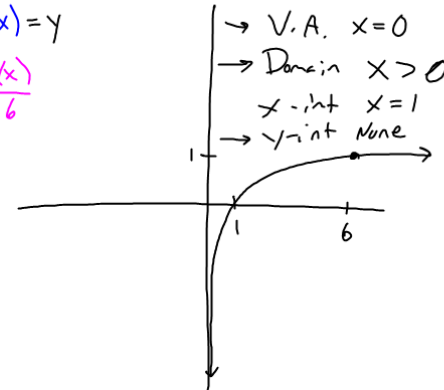
y-int = 1

x-int = None



⑦ $\log_6(x) = y$

$y_1 = \frac{\log(x)}{\log 6}$



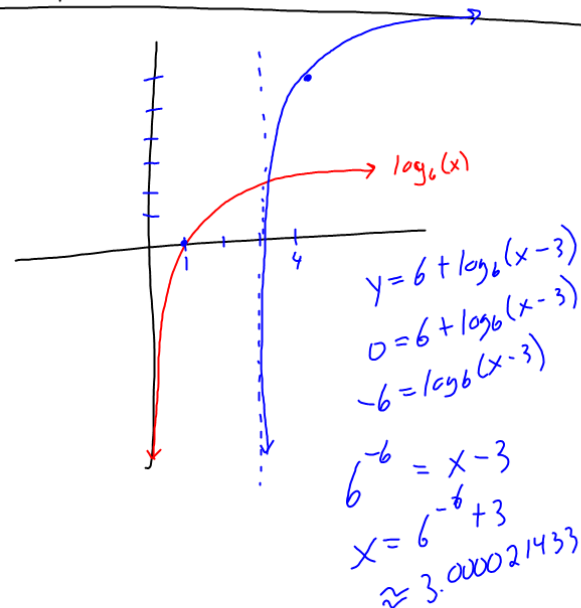
⑧ $6 + \log_6(x-3)$

$y_1 = 6 + \frac{\log(x-3)}{\log 6}$

Domain: $x > 3$ V.A. $x = 3$

y-int. none

x-int.



Sect. 3,2

1-18(even), 26, 29, 35, 39, 42, 44, 57-62